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Patent

IN THE CLAIMS:

Please cancel claims 1-27 and replace them with new claims 53-96, all as shown in the attached listed of all pending claims.

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Claims 1-52 are canceled.

53. (New) A computer-implemented method of ranking the relevancy of pages in a collection of pages including linking hypertext pages, comprising:

determining an intrinsic ranking factor for a selected page for use of at least one selected word on the selected page; and

determining an extrinsic ranking factor for the selected page, for each linking page in the collection of pages containing an outbound link to the selected page, for use of the at least one selected word on the linking page; and

ranking the relevancy of the selected page for the at least one selected word by combining the intrinsic and extrinsic ranking factors related thereto.

54. (New) The invention of claim 53, further comprising:

adjusting the intrinsic ranking factor for a page weighting factor related to the selected page.

55. (New) The invention of claim 54, further comprising:

adjusting the extrinsic ranking factor, for each linking page, for a page weighting factor related to that linking page.

56. (New) The invention of claim 55, further comprising:

adjusting the extrinsic ranking factor, for each linking page, for a link weighting factor related to a quantity of outbound links on that linking page to other pages in the collection of pages.

57. (New) The invention of claim 53, further comprising:

adjusting the extrinsic ranking factor, for each linking page, for a page weighting factor related to that linking page.

58. (New) The invention of claim 57, further comprising:

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adjusting the extrinsic ranking factor, for each linking page, in accordance with a link weighting factor related to a quantity of outbound links on that linking page to other pages in the collection of pages.

59. (New) The invention of claim 53, further comprising:

adjusting the extrinsic ranking factor, for each linking page, in accordance with a link weighting factor related to a quantity of outbound links on that linking page to other pages in the collection of pages.

60. (New) The invention of claims 53-58 or 59, wherein determining the extrinsic ranking factor further comprises:

determining use of the at least one selected word in the outbound link to the selected page on each linking page.

61. (New) The invention of claim 60, wherein determining use of the at least one selected word in the outbound link further comprises:

determining use of the at least one selected word in the vicinity of the outbound link.

62. (New) The invention of claims 53-58 or 59, wherein the at least one selected word is related to a query.

63. (New) The method of 53-58 or 59, further comprising:

ranking each of a plurality of selected pages for each of a plurality of selected words;

forming one or more databases including data related to the rankings of each of the selected words for each of the selected pages on which each of the selected words is used; and

responding to a query with a result set of pages, each page in the result set ranked in accordance with the rankings of that page for one or more of the plurality of selected words related to the query.

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64. (New) The invention of claim 63, further comprising:
indexing at least one of said one or more databases in accordance with the plurality of selected words.
65. (New) The invention of claim 63, wherein forming the one or more databases further comprises:
determining the content of each selected page,
extracting outbound links from each selected page; and
deriving the page weighting factor for each selected page.
66. (New) The invention of claim 65 wherein deriving the page weighting factor for each selected page further comprises:
using a reservoir of bi-directional links to and from each of the selected pages in order to be able to determine the page weighting factor related for each selected page in accordance with a probability of a user viewing that selected page as a result of viewing pages in a random fashion in the collection.
67. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor further comprises:
determining a frequency of the use of the at least one selected word on the selected page.
68. (New) The invention of claim 67 wherein determining the intrinsic ranking factor further comprises:
determining a location of the at least one selected word on the selected page.
69. (New) The invention of claim 68 wherein determining the intrinsic ranking factor further comprises:
determining use of the at least one selected word on the selected page, compared to use of other words on the selected page.

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70. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor further comprises:

determining location of the at least one selected word on the selected page.

71. (New) The invention of claim 70 wherein determining the intrinsic ranking factor further comprises:

determining a manner of usage of the at least one selected word on the selected page compared to other words on the selected page.

72. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor further comprises:

determining a manner of usage of the at least one selected word on the selected page compared to other words on the selected page.

73. (New) The invention of claim 53-58 or 59 wherein determining the extrinsic ranking factor further comprises:

determining a size of a paragraph in which the at least one selected word is used in the linking page.

74. (New) The invention of claims 53-58 or 59 wherein determining an intrinsic ranking factor further comprises:

determining an intrinsic ranking factor for a selected page for use of a plurality of selected words on the selected page; and

adjusting the intrinsic ranking factor for a proximity between at least two of the plurality of selected words on the selected page.

75. (New) The invention of claim 74 wherein determining an intrinsic ranking factor further comprises:

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adjusting the intrinsic ranking factor for a word order between at least two of the plurality of selected words on the selected page.

76. (New) The invention of claims 53-58 or 59 wherein determining an intrinsic ranking factor further comprises:

determining an intrinsic ranking factor for a selected page for use of a plurality of selected words on the selected page; and

adjusting the intrinsic ranking factor for a word order between at least two of the plurality of selected words on the selected page.

77. (New) The invention of claims 53-58 or 59 wherein determining an extrinsic ranking factor further comprises:

determining an extrinsic ranking factor for a selected page for use of a plurality of selected words in the vicinity of the outbound link to the selected page on each linking page.

78. (New) The invention of claims 53-58 or 59 wherein determining an extrinsic ranking factor further comprises:

determining an extrinsic ranking factor for a selected page for use of a plurality of selected words on the linking page; and

adjusting the extrinsic ranking factor for a proximity between at least two of the plurality of selected words on the linking page.

79. (New) The invention of claim 78 wherein determining an extrinsic ranking factor further comprises:

adjusting the extrinsic ranking factor for a word order between at least two of the plurality of selected words on the linking page.

80. (New) The invention of claims 53-58 or 59 wherein determining an extrinsic ranking factor further comprises:

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determining an extrinsic ranking factor for a selected page for use of a plurality of selected words on the linking page; and

adjusting the extrinsic ranking factor for a word order between at least two of the plurality of selected words on the linking page.

81. (New) The invention of claim 80 wherein determining an extrinsic ranking factor further comprises:

determining the extrinsic ranking factor for the selected page for use of the plurality of selected words in the vicinity of the outbound link to the selected page on each linking page.

82. (New) The invention of claims 53-58 or 59 wherein ranking the relevancy of the selected page further comprises:

ranking the relevancy of the selected page for a plurality of selected words; and

adjusting the ranking in accordance with proximity between at least two of the plurality of selected words.

83. (New) The invention of claim 82 wherein ranking the relevancy of the selected page further comprises:

adjusting the ranking in accordance with a word order between at least two of the plurality of selected words.

84. (New) The invention of 53-58 or 59 wherein ranking the relevancy of the selected page further comprises:

ranking the relevancy of the selected page for a plurality of selected words; and

adjusting the ranking in accordance with a word order between at least two of the plurality of selected words.

85. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor further comprises:

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determining a frequency of the use of a plurality of selected words on the selected page; and
adjusting the intrinsic ranking factor in accordance with proximity between at least two of the
plurality of selected words.

86. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor
further comprises:

determining a frequency of the use of a plurality of selected words on the selected page; and
adjusting the intrinsic ranking factor in accordance with word order between at least two of
the plurality of selected words.

87. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor
further comprises:

determining a frequency of the use of a plurality of selected words on the selected page; and
adjusting the intrinsic ranking factor in accordance with proximity between at least two of the
plurality of selected words.

88. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor
further comprises:

determining a location of the use of each of a plurality of selected words on the selected
page.

89. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor
further comprises:

determining use of a plurality of selected words on the selected page, compared to use of
other words on the selected page, and
adjusting the intrinsic ranking factor in accordance with proximity between at least two of the
plurality of selected words.

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90. (New) The invention of claim 53-58 or 59 wherein determining the intrinsic ranking factor further comprises:

determining use of a plurality selected words on the selected page, compared to use of other words on the selected page, and

adjusting the intrinsic ranking factor in accordance with word order between at least two of the plurality of selected words.

91. (New) A computer implemented method of ranking the relevancy of pages in a collection of pages including hypertext linking pages, comprising:

for each page of a collection of pages including hypertext linking pages, determining
a page weighting factor related to a probability of a user viewing said each page as a result of viewing pages in a random fashion in the collection,

a content score for the use of each one of a plurality of selected words on said each page, and

an anchor text content score, for each of the plurality of selected words, related to the use of one or more of the plurality of selected words in association with an outbound link on said each page to another page in the collection; and

for each of the plurality of selected words,
ranking a relevancy of each page in accordance with
the content score for that page adjusted in accordance with the page weighting factor for that page; and

the anchor text score for each linking page having an outbound link to that page adjusted in accordance with a page weighting factor for that linking page.

92. (New) The method of claim 91 wherein ranking a relevancy further comprises:

further adjusting the said anchor text scores for each linking page in accordance the number of outbound links on that linking page.

93. (New) The method of claims 91 or 92 further comprising:

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forming one or more databases of the relevance rankings for the use of each of the plurality of selected words on each of the pages of the collection, and

searching the one or more databases to respond to a query with a result set of pages ranked for use of one or more of the selected words.

94. (New) The method of claims 91 or 92 further comprising:

forming one or more databases of the relevance rankings for the use of each of the plurality of selected words on each of the pages of the collection, and

searching the one or more databases to respond to a query with a result set of pages ranked for use of at least two of the plurality of the selected words.

95. (New) The method of claim 94 further comprising:

adjusting the ranking in accordance with a proximity between the at least two of the plurality of words.

96. (New) The method of claim 94 further comprising:

adjusting the ranking in accordance with a word order between the at least two of the plurality of words.

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